

TCPP Chronic Perinatal Study-Rats

Table 2: PND 4-28 Live Litter Size and Survival

Parameter ^{d,k}	Control	2500 ppm	5000 ppm	10000 ppm	20000 ppm	Trend ^a
Live per Litter^b						
PND 4 Precull Male ^{i,j}	6.67 ± 0.48 [27]	6.19 ± 0.34 [32]	5.97 ± 0.28 [34]	6.62 ± 0.45 [29]	6.36 ± 0.39 [33]	0.708+
PND 4 Precull Female ^{i,j}	6.15 ± 0.35 [27]	6.16 ± 0.31 [32]	6.35 ± 0.43 [34]	4.76 ± 0.37 [29]	6.24 ± 0.40 [33]	0.420-
PND 4 Precull Total ⁱ	12.90 ± 0.40 [30]	12.36 ± 0.40 [33]	12.20 ± 0.44 [35]	11.22 ± 0.60 [32]	12.61 ± 0.47 [33]	0.351-
PND 4 Postcull Male	4.07 ± 0.07 [30]	4.00 ± 0.00 [30]	4.00 ± 0.00 [30]	4.11 ± 0.08 [27]	4.00 ± 0.07 [30]	0.675-
PND 4 Postcull Female	3.93 ± 0.07 [30]	4.00 ± 0.00 [30]	4.00 ± 0.00 [30]	3.89 ± 0.08 [27]	4.00 ± 0.07 [30]	0.675+
PND 4 Postcull Total	8.00 ± 0.00 [30]	8.00 ± 0.00 [30]	8.00 ± 0.00 [30]	8.00 ± 0.00 [27]	8.00 ± 0.00 [30]	1.000+
PND 7 Male + Female	8.00 ± 0.00 [30]	8.00 ± 0.00 [30]	8.00 ± 0.00 [30]	7.96 ± 0.04 [27]	7.93 ± 0.05 [30]	0.040-
PND 10 Male + Female	8.00 ± 0.00 [30]	8.00 ± 0.00 [30]	8.00 ± 0.00 [30]	7.96 ± 0.04 [27]	7.93 ± 0.05 [30]	0.040-
PND 14 Male + Female	7.97 ± 0.03 [30]	8.00 ± 0.00 [30]	8.00 ± 0.00 [30]	7.96 ± 0.04 [27]	7.83 ± 0.10 [30]	0.104-
PND 17 Male + Female	7.97 ± 0.03 [30]	8.00 ± 0.00 [30]	8.00 ± 0.00 [30]	7.96 ± 0.04 [27]	7.83 ± 0.10 [30]	0.104-
PND 21 Male + Female	7.97 ± 0.03 [30]	8.00 ± 0.00 [30]	8.00 ± 0.00 [30]	7.96 ± 0.04 [27]	7.83 ± 0.10 [30]	0.104-
PND 28 Male	4.07 ± 0.07 [30]	4.00 ± 0.00 [30]	4.00 ± 0.00 [30]	4.07 ± 0.09 [27]	3.93 ± 0.07 [30]	0.141-
PND 28 Female	3.90 ± 0.07 [30]	4.00 ± 0.00 [30]	4.00 ± 0.00 [30]	3.89 ± 0.08 [27]	3.90 ± 0.10 [30]	0.958-
PND 28 Male + Female	7.97 ± 0.03 [30]	8.00 ± 0.00 [30]	8.00 ± 0.00 [30]	7.96 ± 0.04 [27]	7.83 ± 0.10 [30]	0.104-
PND 4 Precull % Male^{i,j}						
% Male in Dose ^{c,e}	52.0 [346]	50.1 [395]	48.4 [419]	58.2 [330]	50.5 [416]	
% Male per Litter ^b	51.1 ± 2.8 [27]	50.0 ± 2.0 [32]	50.1 ± 2.7 [34]	58.7 ± 3.2 [29]	50.2 ± 2.6 [33]	0.624+
Survival^c						
Total Dead PND 1-4 ^{e,f,i}	12 [9]	7 [6]	9 [7]	12 [10]	14 [7]	
Total Dead PND 4-28 ^{e,f}	1 [1]	0 [0]	0 [0]	1 [1]	5 [3]	
Dead/Litter PND 1-4 ^{b,i}	0.40 ± 0.13 [30]	0.21 ± 0.08 [33]	0.26 ± 0.10 [35]	0.38 ± 0.12 [32]	0.41 ± 0.18 [34]	0.903-
Dead/Litter PND 4-21 ^b	0.03 ± 0.03 [30]	0.00 ± 0.00 [30]	0.00 ± 0.00 [30]	0.04 ± 0.04 [27]	0.17 ± 0.10 [30]	0.104+
Survival Ratio 1-4 ^{b,g,i}	0.997 ± 0.003 [30]	0.998 ± 0.002 [33]	0.994 ± 0.003 [35]	0.985 ± 0.006 [32]	0.959 ± 0.030 [34]	0.018-
Survival Ratio 4-28 ^{b,h}	0.996 ± 0.004 [30]	1.000 ± 0.000 [30]	1.000 ± 0.000 [30]	0.995 ± 0.005 [27]	0.979 ± 0.012 [30]	0.104-

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- a: P-value and direction of trend
- b: Each dose was compared to the control with Shirley's test when a trend was present [P<0.01 from Jonckheere's trend test] or with Dunn's test when no trend was present [* = P<0.05, ** = P<0.01]
- c: $100 \times (\text{Number of live males in dose group}) / (\text{Number of live males and females in dose group})$ [Number of pups]
- d: Mean \pm standard error [Number of litters] unless otherwise specified
- e: No statistics were performed on this endpoint
- f: Number of dead pups in dose [Number of litters with dead pups]
- g: Survival per litter: Number of live pups PND 4 precull / Number of live pups on PND 1
- h: Survival per litter: Number of live pups PND 28 / Number of live pups PND 4 postcull
- i: Litters that had differing total counts on PND 1 and PND 4 not included
- j: Litters where the male/female pup counts were inconsistent between PND 1 and PND 4 were excluded from the male/female-specific endpoints
- k: One dam from the 10000 dosed group removed from all endpoints due to unclear counts